



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**D2397-3**  
**Job Sheet 193214**



**Part No:** D2397-3

**Job Qty:** 10 pcs

**Part Name:** Rubber Cushion



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 4/9/19

**Job Tracking No:**

**Due Date:** 4/12/19

**Created By:** Marie Lajeunesse

**Type:** SOLD

**Description:**

**Note:** DWG REV C IPP A 98.12.15 New Issue DM

**Ship Via:**

### Bill of Materials



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

**Container No:** S174269



**Part:** D2397-3

**Job No:** 193214

**Serial No/Batch:** S174269

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions:** Various STC's

**Date:** 04/23/19

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
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| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QS1042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column; gap: 5px;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |

| Job Routing                                                                                                                                                                                                                                                                            |                             |                   |                   |           |                    |         |                       |           |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------|-------------------|-----------|--------------------|---------|-----------------------|-----------|--------------------|
| Op No                                                                                                                                                                                                                                                                                  | Operation                   | Qty               | Start Date        | Due Date  | Standard Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time | Sign-off           |
| 100                                                                                                                                                                                                                                                                                    | Small Fab - 1               | 10 pcs            | 4/12/19           | 4/12/19   | 0.00               | 0.63    | Small Fab - 1         |           | DAS 58 APR 23 2019 |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Small Fab - 2         |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Small Fab - 3         |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Small Fab - 4         |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Small Fab - 5         |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Small Fab - 6         |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Small Fab - 7         |           |                    |
| 110                                                                                                                                                                                                                                                                                    | QC 5                        | 10 pcs            | 4/12/19           | 4/12/19   | 0.00               | 0.00    | QC 5 - 10             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 12             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 17             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 18             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 19             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 22             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 24             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 3              |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 43             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 49             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 51             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 58             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 68             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 9              |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 50             |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 30             |           | DAS 30 APR 23 2019 |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 5 - 40             |           |                    |
| 120                                                                                                                                                                                                                                                                                    | Packaging 3-1 - Stock - B4B | 10 pcs            | 4/12/19           | 4/12/19   | 0.00               | 0.00    | Packaging 3 - 1 - B4B |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Packaging 3 - 2 - B4B |           | DAS 30 APR 23 2019 |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Packaging 3 - 3 - B4B |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Packaging 3 - 4 - B4B |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | Packaging 3 - 5 - B4B |           |                    |
| 130                                                                                                                                                                                                                                                                                    | QC 21 - SA                  | 10 pcs            | 4/12/19           | 4/12/19   | 0.00               | 0.00    | QC 21 - SA - 21       |           | DAS 21 APR 23 2019 |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 21 - SA - 70       |           |                    |
|                                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         | QC 21 - SA - 53       |           |                    |
| Part Op 100 - Cut and punch per Dwg D2397 using Template DT 8199 and Punch DT 8200<br>Descriptions: 110 - (QC5- Inspect part completeness to step on W/O)<br>120 - (Identify as per dwg & Stock Location: A 128), LOCATION : GA<br>130 - (QC21- Final Inspection - Work Order Release) |                             |                   |                   |           |                    |         |                       |           |                    |
| Job BOM                                                                                                                                                                                                                                                                                |                             |                   |                   |           |                    |         |                       |           |                    |
| Part / Item                                                                                                                                                                                                                                                                            | Component Name              | Quantity          | Operation         | Container |                    |         |                       |           |                    |
| MNEO60S.063                                                                                                                                                                                                                                                                            | Neoprene Sheet 0.063        | .4000 sf (.04 ea) | 100-Small Fab - 1 | S165308   |                    |         |                       |           |                    |
| Job Allocations                                                                                                                                                                                                                                                                        |                             |                   |                   |           |                    |         |                       |           |                    |
| Operation                                                                                                                                                                                                                                                                              | Component Part              | Required          | Inventory         | Allocated |                    |         |                       |           |                    |
| 100-Small Fab - 1                                                                                                                                                                                                                                                                      | MNEO60S.063                 | 0                 | 396               | 0         |                    |         |                       |           |                    |
| Part Specifications                                                                                                                                                                                                                                                                    |                             |                   |                   |           |                    |         |                       |           |                    |
| Specifications could not be found.                                                                                                                                                                                                                                                     |                             |                   |                   |           |                    |         |                       |           |                    |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

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| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |              |                        |  |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QS1042) |                        |  |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              | Completed By           |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              | Lead hand / Supervisor |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              |                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              | QC / QA Coordinator    |  |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |              |                        |  |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              |                        |  |  |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
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| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
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| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |